

K = The Factor for Soil Erodibility

Soil erodibility varies during the year. Erodibility tends to be high early in the spring--during and immediately following thawing and during periods when the soil is wet. "K" values tend to be lower in the fall. RUSLE accounts for these variations, and an adjusted "K" value has been computed for locations where climate has a significant impact.

Make factor adjustments for all counties as follows:

1. Obtain the assigned "K" factor for the soil map unit from the Interpretative Groupings found in Section II, Soil Legends, of the Kansas FOTG.

2. Use Figure R-1 (Annual Rainfall Factor "R") to determine the appropriate "R" for the county and Figure K-1 ("C" & "K" Factor Zones in Kansas) to determine the appropriate "K" factor zone.

Find the adjusted "K" factor from Table K-1 (Average Annual "K" Factors) that corresponds with the "K" factor determined in Step 1 above. Use this adjusted "K" factor in RUSLE computations. These adjusted "K" factor values are for use only in manual RUSLE calculations.

Table K-1 - Average Annual "K" Factors

Climatic Zone	Climate Station	Soil K													
		0.02	0.05	0.10	0.15	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	0.55	0.64
82T	Springfield CO	0.02	0.05	0.12	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	0.55	0.64	0.76
83T-B	Burlington, CO	0.02	0.05	0.12	0.17	0.20	0.24	0.28	0.32	0.37	0.43	0.49	0.55	0.64	0.76
88A	Ness City, KS	0.02	0.05	0.10	0.15	0.17	0.22	0.26	0.30	0.35	0.40	0.46	0.52	0.60	0.70
88B	Norton, KS	0.02	0.05	0.10	0.15	0.17	0.22	0.26	0.30	0.35	0.40	0.46	0.52	0.60	0.70
88C	Concordia, KS	0.02	0.05	0.10	0.15	0.15	0.17	0.22	0.26	0.30	0.35	0.40	0.46	0.52	0.60
88D	Manhattan, KS	0.02	0.05	0.08	0.12	0.15	0.17	0.20	0.24	0.26	0.30	0.35	0.40	0.46	0.52
89A	Coldwater, KS	0.02	0.05	0.10	0.15	0.15	0.17	0.22	0.26	0.30	0.35	0.40	0.46	0.52	0.60
89B	Wellington, KS	0.02	0.05	0.08	0.12	0.15	0.17	0.20	0.24	0.26	0.30	0.35	0.40	0.46	0.52
89C	Chanute, KS	0.02	0.05	0.08	0.12	0.15	0.17	0.20	0.24	0.26	0.30	0.35	0.40	0.46	0.52
99	Shenendoah, IA	0.02	0.05	0.08	0.12	0.15	0.17	0.20	0.24	0.26	0.30	0.35	0.40	0.46	0.52

The RUSLE Adjusted "K" factors from this table are to be used only for hand calculations.

Figure K-1 - "C" and "K" Factor Zones in Kansas

